

Technical sheet :

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Technical characteristics		Metric	
1.1	Manufacturer		Manitou
1.2	Model Name		ES 616 LI 5 point
1.3	Power source		Electrical
1.4	Operator type		Pedestrian
1.5	Max. capacity	Q	1600 kg
1.6	Load center of gravity	c	600 mm
1.8	Distance from Load backrest to center of rear axle	x	848 mm
1.9	Wheelbase	y	1492 mm
Weight			
2.1	Service weight		1327 kg
2.2	Weight on front axle (laden) / rear axle (laden)		1246 kg / 1670 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1033 kg / 290 kg
Wheels			
3.1	Tires type		Bandage
3.3	Number of load wheels / Size of load wheels		2 / 140x60
3.4	Number of stabilizer wheels / Size of the stabilizer wheels		1 / 140x60
3.5	Number of front wheels / rear wheels		2 / 4
3.5.2	Number of drive wheels / Size of drive wheels		1/230x70
3.6	Front wheel gauge	b10	529 mm
3.7	Rear wheel gauge	b11	380 mm
Dimensions			
4.6	Initial lift	h5	110 mm
4.15	Fork height in low position	h13	86 mm
4.19	Overall length	l1	2174 mm
4.20	Length to face of forks	l2	976 mm
4.21	Overall width	b1	800 mm
4.22	Forks section / width / length	s / e / l	60 mm / 185 mm / 1190 mm
4.24	Fork carriage width	b3	700 mm
4.32	Ground clearance at centre of wheelbase	m2	30 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	2399 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2402 mm
4.35	Turning radius	Wa	1588 mm
4.9	Height tiller min. / max.	h14 / h14	750 mm / 1250 mm
Performances			
5.1	Travel speed (laden / unladen)		6 km/h / 6 km/h
5.2	Lifting speed (laden / unladen)		0.18 m/s / 0.30 m/s
5.3	Lowering speed (laden / unladen)		0.27 m/s / 0.22 m/s
5.8	Max Gradeability (laden / unladen)		7 % / 10 %
5.10	Service brake		Electro magnetic
Engine			
6.1	Drive motor rating S2 60 min		1.50 kW
6.2	Lift motor rating at S3 15%		3 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN 43535-B
6.4	Battery voltage / capacity		24 V / 180 Ah
6.5	Battery weight (+/- 5%)		189 kg
Miscellaneous			
8.1	Type of drive control		AC
8.4	Sound level at the driver's ear according to DIN 12 053		65 dB

## ES 616 LI (5pts) - Dimensional drawing



## Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	mm	1953	2203
h2 - Mast free lift	mm	1506	1756
h3 - Mast lifting height	mm	1506	1756
h4 - Mast extended height	mm	1960	2210
Residual capacity at max height	kg	1600	1600

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	mm	1953	2203
h2 - Mast free lift	mm	1506	1756
h3 - Mast lifting height	mm	2931	3431
h4 - Mast extended height	mm	3385	3885
Residual capacity at max height	kg	1300	1000

Free Lift Triplex (FLT)		FLT 42
h1 - Mast lowered height	mm	1911
h2 - Mast free lift	mm	1466
h3 - Mast lifting height	mm	4246
h4 - Mast extended height	mm	4723
Residual capacity at max height	kg	600



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